| <ul> <li>Index of Claims</li> </ul> |  |
|-------------------------------------|--|
|                                     |  |

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 10/811,865      | DU ET AL.    |  |
| Examiner        | Art Unit     |  |
| David Sample    | 1755         |  |

| 1  | Rejected |
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| 11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  | A | Appeal   |
|---|--------------|---|----------|
| 1 | Interference | o | Objected |

| Cla                    |              |            |          |          | _            | Da        | ate       |  |          | _   |       | С        | laim        | Γ                |          |          |                         | Date         | -                 |         |          |          | 躣     | C        | alm        | Π            |          | _        |          | Dat      | е               |            |           | _            |
|------------------------|--------------|------------|----------|----------|--------------|-----------|-----------|--|----------|---|-------|----------|-------------|------------------|----------|----------|-------------------------|--------------|-------------------|---------|----------|----------|-------|----------|------------|--------------|----------|----------|----------|----------|-----------------|------------|-----------|--------------|
|                        | ā            | 12         | 297      | Ţ.       | T            | T         | Τ         | T  | T        | T   | 9 pr  |          | -e          |                  |          |          |                         |              |                   |         |          |          |       |          | T          | Γ            |          | Γ        |          |          |                 |            |           | Г            |
| Final                  | Original     | 10         | 1        |          | 1            |           | 1         |  |          |   |       | Finat    | Original    |                  | 1        |          |                         |              |                   |         |          |          |       | Final    | Original   | 1            |          | 1        |          |          |                 |            |           |              |
| T.                     | Ö            | الما       | 10       | t        |              | ı         | -         |  | ł        | ı   |       | [        | 1 5         |                  | 1        |          |                         |              |                   |         |          |          | nate: | Œ.       | 5          | ĺ            | ı        | 1        |          |          | 1               |            |           |              |
| 7                      |              | <b>P</b> ) | ど        | 1        | +            | - -       | +         | -  | 4        | 4   | —[清   | <u> </u> |             | 4-               | ┡        |          | L.                      | $\vdash$     | $\perp$           |         |          |          |       | <u> </u> |            | <b> </b> _   | <u> </u> | L        | ļ_       | ┖        | ᆫ               | Щ          | Ш         | L            |
|                        | Q            | <b>Y</b> . | =        | ╬╌       | +            | +         | +         | +  | -+       | -   | -12   | <u> </u> | 51          | ╀                | ⊢        | L        | -                       |              |                   | _       | $\dashv$ | _        |       |          | 101        | ╀            | <b>├</b> | <u> </u> | -        | <u> </u> | ├               | Ш          | $\square$ | <u> </u>     |
| 23456789               | 2            | H          | H        | ╀        | ┿            | +         | +         | $\dashv$   | -        | $\dashv$  | -6    | <u> </u> | 52<br>53    | +-               | -        | ⊢        | Н                       |              |                   | _       | $\vdash$ |          |       |          | 102        | ├            | ┢        | <b>—</b> | ├-       |          | ▙               | _          | -4        | <u> </u>     |
| 13                     | (4)          | H          | H        | ╁        | ╁            | ╫         | ╁         | +  | $\dashv$ | $\dashv$  |       | <b>!</b> | 54          | ╁╴               | ╢        | -        | Н                       | -            | $\dashv$          |         | $\dashv$ | _        |       |          | 103<br>104 | ╁            | ⊢        | ┝        | ⊢        | ┢        | <u> </u>        | _          |           | -            |
| 7                      | <del>Y</del> | H          | H        | ╁╌       | 十            | ╁         | ╅         | -+   | +        | ╅   |       | -        | 55          | ╁                | -        | Н        | Н                       |              | -                 | -       | $\dashv$ | -        |       | ├─       | 105        | ╁╴           | ├        | ⊢        | ╁        | ┢        | ⊢               | Н          | $\vdash$  | <del>-</del> |
| 10                     | 6            | H          | ╫        | H        | $^{+}$       | ╅         | 十         | +  | $\dashv$ | +   |       | -        | 56          | ┿                | H        | Н        | -                       |              | $\dashv$          | -       |          | $\dashv$ |       |          | 106        | Н            | $\vdash$ | ┝        | ⊢        | ⊢        | $\vdash$        | Н          | $\dashv$  | _            |
| 7                      | 7            | H          | Ħ        | T        | $^{\dagger}$ | ╅         | +         | +  | ┪        | $\dashv$  | -11   |          | 57          | ╁                |          |          | М                       | П            | $\dashv$          | ╗       |          | _        |       | $\vdash$ | 107        | ╁╴           | $\vdash$ | ┢        | -        | ┢        |                 | Н          | $\dashv$  | _            |
| 8                      | 8            |            | T        | T        | 1            | ┪         | 1         | 1  | ╗        | $\neg$  |       |          | 58          | 1                |          | П        |                         | П            | $\neg$            |         |          | П        | W     |          | 108        | 1            | Т        | Т        |          | $\vdash$ |                 | Н          |           |              |
| 7                      | 9            | П          | П        |          |              | I         | T         | $\Box$   |          |   |       |          | 59          | T                |          |          |                         |              |                   |         |          |          |       |          | 109        | 1            |          | Г        | 1        |          | П               |            | $\neg$    |              |
|                        | 10           |            | П        |          |              |           |           |  | $\Box$   |   |       |          | 60          |                  |          |          |                         |              |                   |         |          |          |       |          | 110        | П            |          |          | T        |          |                 |            |           | _            |
| 1                      | 1            | $\prod$    | $\prod$  | L        |              | $\int$    |           | $oldsymbol{ol}}}}}}}}}}}}}}$ | I        | I   |       |          | 61          | $\perp$          |          |          |                         |              |                   |         |          |          |       |          | 111        |              |          |          |          | L        |                 |            |           | _            |
| 12                     | (12)         | J.         |          | 1        | 1            | Į.        |           | $\perp$  | _        | _   |       |          | 62          | 1                |          |          |                         |              |                   |         |          | ·        |       |          | 112        |              |          |          | $\Box$   |          |                 |            |           | _            |
| 12<br>13<br>14         | 13           | 1          | =        | L        | 1            | 1         | 4         | 4  | $\perp$  | $\perp$   | 15.0  | <u> </u> | 63          | 1                | Ш        | $\Box$   |                         | Ш            | _                 |         |          | _]       |       |          | 113        | $\Box$       |          | 匚        | 匚        |          |                 | $\Box$     | $\Box$    | _            |
| 19                     | 14           | Ľ          | Ξ        | 1        | +            | +         | +         | 4  | 4        | _   | _     |          | 64          | +-               | Ш        | $\Box$   |                         | Ц            | $\dashv$          | _       | _        | _        |       | L        | 114        | <u> </u>     | Щ        | L.       | <u> </u> | L        | Ш               | Щ          | $\Box$    | _            |
| $\vdash$               | 10           | F          | <u> </u> | H        | +            | +         | +         | 4  | +        | -+  |       | <b>—</b> | 65          | +                | Ш        | Н        |                         |              | $\dashv$          |         | _        | _        |       |          | 115        | $\vdash$     | Щ        | L        | <u> </u> | <u> </u> | $\square$       | _          | $\dashv$  |              |
| $\vdash \dashv$        | 16<br>17     | -          | -        | ├        | ╀            | +         | +         | +  | +        | +   |       | <u> </u> | 66          | +                | $\vdash$ | $\dashv$ | $\dashv$                |              |                   | 4       |          |          | 121   |          | 116        | <del> </del> | H        | <u> </u> | L        | H        | Щ               |            | _         | _            |
| $\vdash \vdash \vdash$ | 18           | -          | -        | +        | +            | +         | +         | +  | +        | +   | _#    | -        | 67<br>68    | +                | Н        | -        | -                       | -            | 4                 | 4       | -        | -        |       |          | 117        | $\vdash$     | Н        | _        | -        | -        | Н               | $\dashv$   |           |              |
| -                      | 19           | -          | -        | $\vdash$ | +            | +         | +         | +  | +        | +   |       | <u> </u> | 69          | +                | Н        | $\dashv$ |                         |              | -                 |         | $\dashv$ | {        |       | <u> </u> | 118<br>119 | -            | Н        |          | $\vdash$ | Н        | Н               |            |           |              |
|                        | 20           | -          | -        | H        | +            | +         | +         | +  | +        | +   |       | $\vdash$ | 70          | +                | Н        | -        | $\dashv$                | $\dashv$     | $\dashv$          | -       |          | ᅱ        |       |          | 120        | $\vdash$     | Н        | -        | -        | -        | $\vdash \vdash$ |            | 4         |              |
|                        | 21           |            | -        | ┢        | +            | +         | +         |  | +        | 十   | -     | $\vdash$ | 71          |                  | Н        |          |                         | -            | -                 | +       | -+       | ┥        |       | <u> </u> | 121        | $\vdash$     |          |          | -        | H        | Н               | ᅱ          | $\dashv$  | —            |
|                        | 22           |            | Ι-       | H        | +            | +         | +         | +  | 十        | +   |       | -        | 72          |                  | H        | -        | $\dashv$                | -            | -                 | -       | +        | $\dashv$ |       |          | 122        | -            | -        | -        | $\vdash$ | H        | Н               | $\dashv$   | -         | _            |
|                        | 23           | -          | _        | H        | +            | 1         | $\dagger$ | +  | T        | 十   |       |          | 73          | $t^-$            | Н        | _        | 7                       | $\dashv$     | _                 | 7       | _        | ᅱ        |       |          | 123        |              |          |          |          |          |                 | ∺          |           |              |
|                        | 24           |            | Г        | T        | Τ            | $\top$    | †         | 1  |          | T   |       |          | 74          |                  | П        | 7        | $\neg$                  | $\neg$       | 寸                 | 7       | $\dashv$ | ┪        |       |          | 124        | $\vdash$     | П        | _        | $\vdash$ |          | П               | $\dashv$   | $\dashv$  |              |
|                        | 25           |            |          |          | Т            | Т         | T         | T  | T        | 丁   |       |          | 75          |                  |          |          |                         | $\neg$       |                   | 7       | コ        | ᅵ        |       |          | 125        | П            |          |          |          |          | П               | 寸          | 寸         | _            |
|                        | 26           |            |          |          |              | Ι         | Ι         | I  |          |   |       |          | 76          |                  |          |          |                         |              |                   |         | $\Box$   |          | M     |          | 126        |              |          |          | П        |          |                 | $\neg$     | ┪         | _            |
|                        | 27           |            |          |          |              | $\perp$   |           |  |          |   | 10.75 |          | 77          |                  |          |          |                         |              |                   |         |          |          |       |          | 127        |              |          |          |          |          |                 | ヿ          | コ         |              |
|                        | 28           |            |          | L        | 1            | 1         | 1         | _  | Ц.       |   |       |          | 78          |                  |          |          |                         |              | $\perp$           | $\Box$  | $\Box$   |          |       |          | 128        |              |          |          |          |          |                 |            |           |              |
|                        | 29           |            |          | L        | L            | 1         | 4         | $\perp$  | _        | $\perp$   |       | <u> </u> | 79          | $\perp$          | Щ        | _        | _                       | _            | 4                 | ┙       | _        |          |       |          | 129        |              |          |          |          |          |                 | $\Box$     | $\Box$    |              |
|                        | 30           | _          |          | L        | ╀            | ↓_        | +         | +  | - -      | _   | _     |          | 80          | ↓_               | _        | _        | _                       | _            | _                 | 4       | 4        |          |       |          | 130        |              |          |          |          |          | $\Box$          | _          | _         |              |
|                        | 31           |            | -        | L        | ╀            | ╀         | +         | +  | +        | +   |       | ┝        | 81          | -                | _        | -        | -                       | -            | -                 | 4       | -        | _        |       |          | 131        | Ш            |          | _        | <u></u>  |          | _               | 4          | 4         | _            |
| $\dashv$               | 32<br>33     | _          |          | _        | ╀            | +-        | ╀         | +  |          | +   | 1     | ┡        | 82          | -                |          |          |                         | -            | 4                 | 4       | 4        | -4       |       |          | 132        | Щ            |          | _        |          | _        | _               | 4          | 4         |              |
| -                      | 34           | -          | Н        | -        | ╁            | ╁         | ╁         | +  | +        | +   |       | ┝-       | 83<br>84    | +                | 1        | $\dashv$ |                         |              | $\dashv$          | +       | $\dashv$ | 4        |       |          | 133<br>134 | Н            |          | _        | Н        |          | $\dashv$        | -          | 4         | _            |
|                        | 35           |            | Н        | -        | +-           | +-        | 十         | +  | +        | +   |       |          | 85          | Н                | $\dashv$ | $\dashv$ | +                       | $\dashv$     | -                 | +       | -+       | -        |       |          | 135        | Н            |          |          | Н        | $\dashv$ | $\dashv$        | +          | $\dashv$  | _            |
| $\dashv$               | 36           | -          | Н        | -        | +            | † -       | †         | +  | +        | +   |       | L        | 86          | $\dagger \dashv$ |          | $\dashv$ | ┪                       | $\dashv$     | +                 | ┪       | 十        | $\dashv$ | III   |          | 136        | Н            | ┪        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$   | $\dashv$  | —            |
| $\dashv$               | 37           | $\dashv$   | Н        | $\vdash$ | t            | $\dagger$ | $\dagger$ | +  | +        | +   | -     |          | 87          | H                | 1        | $\dashv$ | $\dashv$                | +            | +                 | ┪       | $\dashv$ | $\dashv$ |       |          | 137        | -            |          | ᅱ        | $\dashv$ | -        | $\dashv$        | $\dashv$   | +         | -            |
|                        | 38           | $\exists$  |          |          | T            | †         | ✝         | †  | $\top$   | $\top$  |       |          | 88          |                  |          |          |                         |              | 1                 | 7       | +        | -        | H     |          | 138        |              |          |          |          |          | -               | +          | +         | _            |
|                        | 39           |            | П        |          | T            | 1         | 1         | 1  | +        | 1   |       |          | 89          | П                |          |          | 7                       | 1            | $\top$            | 1       | $\dashv$ | -        | 7     |          | 139        | $\vdash$     |          | _        |          |          | -               | +          | +         |              |
|                        | 40           |            |          |          | Ι            | Ι         | Ι         |  |          |   |       |          | 90          |                  |          | Ţ        |                         |              | 丁                 | _†      | _†       |          |       |          | 140        |              |          |          |          |          | $\neg$          | 十          | 十         | $\neg$       |
|                        | 41           |            |          |          |              |           | Ι         | Ι  | floor    | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |       |          | 91          |                  |          | J        |                         | I            | Ι                 | J       |          |          |       |          | 141        |              |          |          |          |          |                 | 1          | 寸         | ٦            |
|                        | 42           |            |          |          | L            | L         | $\perp$   |  | I        | $\perp$   |       |          | 92          | $\Box$           |          | $\Box$   | I                       | $\Box$       | I                 | T       | $\Box$   |          |       |          | 142        |              |          |          |          |          |                 | J          | 丁         | $\neg$       |
|                        | 43           |            |          |          | L            | Ĺ         | 1         | ⊥  | Ţ        | Д   |       |          | 93          | $\Box$           |          | $\Box$   | $oldsymbol{\mathbb{I}}$ | $\Box$       | $oldsymbol{\bot}$ | floor   | $\Box$   |          |       |          | 143        |              |          |          |          |          | J               |            | 丁         |              |
|                        | 44           | _          |          |          | ┖            | $\perp$   | L         | $\bot$   | 1        | 1   | -     |          | 94          | Ц                | $\perp$  |          | $\Box$                  | $\Box$       | $\perp$           | $\perp$ | $\Box$   |          |       |          | 144        |              | $\Box$   |          | $\Box$   | $\Box$   |                 | $\Box$     | J         |              |
| $\perp$                | 45           | _          | _        |          | ┞            | L         | $\perp$   | 1  | _        | ┵   |       |          | 95          |                  |          |          | 1                       |              |                   | 1       |          |          |       |          | 145        |              |          |          | 7 9      |          |                 | I          | I         | - 1          |
|                        | 46           | _          | 4        |          | ╀-           | ╀         | ╀         | +  | 4        | 4   |       |          | 96          | Ш                | 4        | 4        | 1                       | :            | 4                 | 4       | 1        |          |       |          | 146        | $\Box$       | _        | _]       | $\Box$   | $\Box$   | $\perp$         |            | $\perp$   |              |
|                        | 47           | 4          |          | _        | 1            | 1         | $\perp$   | +  | +        | - -   |       |          | 97          | $\sqcup$         | _        | $\dashv$ | 4                       | $\downarrow$ | 4                 | 4       | 4        | _        |       | ,        | 147        | $\Box$       |          | _        |          | $\Box$   | $\perp$         | $\perp$    | $\perp$   |              |
|                        | 48           | -          | 4        | _        | ╀            | +-        | ╀         | +  | +        | +   | -155  |          | 98          | ┟╌┤              | 4        | $\dashv$ | 4                       | 4            | +                 | +       |          | 4        | il.   |          | 148        |              | _        | _        | 4        | _        |                 | _          | 4         | _            |
|                        | 49<br>50     | -          |          | _        | ╀            | ╀         | ╀         | +  | +        | ╀   |       |          | 99<br>100   | $\vdash$         | -+       | $\dashv$ | 4                       | $\dashv$     | +                 | 4       | 4        | -        |       |          | 149        |              | -1       | _        | _        | 4        | -               | -4         | _         | 4            |
|                        | 30           | _          |          |          | Ц            |           |           | Л.   | ┸        |   |       |          | <u> 100</u> | ┙                |          | 丄        |                         | $\perp$      | _                 | ┸       | $\perp$  |          | ۲īL   |          | 150        | !            |          |          |          |          |                 | $_{\perp}$ | _         | - 1          |